



VCC-8115P

INSTRUCTION MANUAL

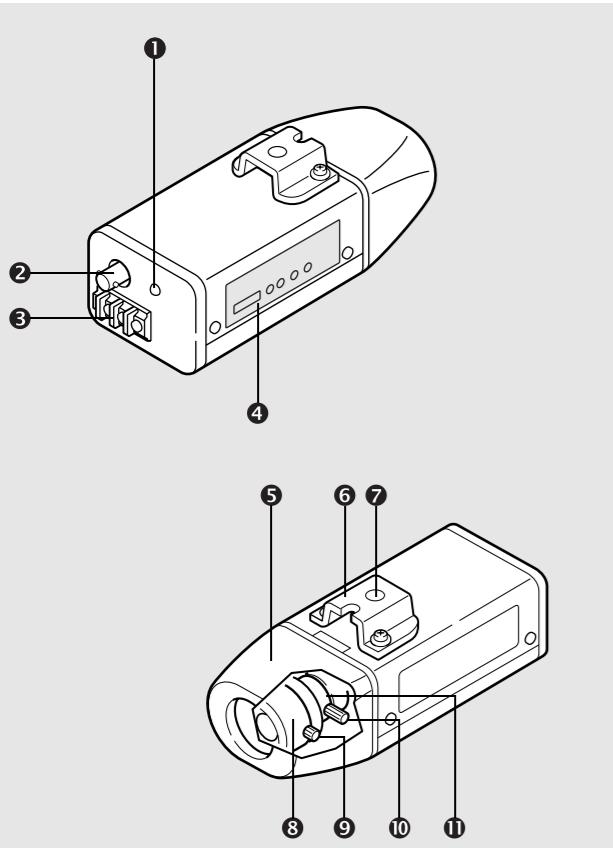
COLOR CCD camera

About this manual

Before installing and using the camera, please read this manual carefully. Be sure to keep it handy for later reference.

Depending on the conditions of use, installation and environment, please be sure to make the appropriate settings and adjustments. If you need help with installation and/or settings, please consult your dealer.

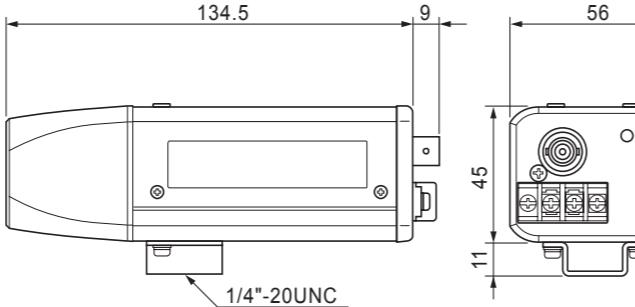
NAMES AND FUNCTIONS OF PARTS



FEATURES

- Backlight compensation: Multi-spot metering and center-weighted metering functions
- 1/4-inch CCD solid-state image device (about 320,000 pixels)
- Vari-focal lens with automatic iris
- Horizontal resolution of 350 TV lines, S/N ratio of 48 dB min.
- Minimum required illumination of 1.2 lx (F1.4 lens)
- High sensitivity, minimum required illumination of 0.4 lx (High Gain, F1.4 lens).
- Power supply: 24 V AC and 12 V DC operation

External dimensions



PRECAUTIONS

■ In case of problem

Do not use the camera if smoke or a strange odor comes from the unit, or if it seems not to function correctly. Disconnect the power cord immediately, and consult your dealer or a Sanyo Authorized Service Center.

■ Do not open or modify

Do not open the cabinet, as it may be dangerous and cause damage to the unit. For internal settings and repairs, consult your dealer or a Sanyo Authorized Service Center.

■ Do not put objects inside the unit

Make sure that no metal objects or flammable substance get inside the camera. If used with a foreign object inside, it could cause a fire, short-circuits or damages. If water or a liquid gets inside the camera, disconnect the power cord immediately, and consult your dealer or a Sanyo Authorized Service Center. Be careful to protect the camera from rain, sea water, etc.

■ Be careful when handling the unit

To prevent damages, do not drop the camera or subject it to strong shock or vibration.

■ Install away from electric or magnetic fields

If installed close to a TV, radio transmitter, magnet, electric motor, transformer, audio speakers the magnetic field they generate will distort the image.

■ Protect from humidity and dust

To prevent damages to the camera, do not install it where there is greasy smoke or steam, where the dampness may get too high, or where there is a lot of dust.

■ Protect from high temperatures

Do not install close to stoves, or other heat generating devices, such as spotlights, etc., or where it could be subject to direct sunlight, as that could cause deformation, discoloration or other damages.

Be careful when installing close to the ceiling, in a kitchen or boiler room, as the temperature may raise to high levels. Install where the temperature range will stay between -10°C (14°F) and 50°C (122°F). (no condensation)

■ Cleaning

- Dirt can be removed from the cabinet by wiping it with a soft cloth. To remove stains, wipe with a soft cloth moistened with a soft detergent solution and wrung dry, then wipe dry with dry soft cloth.
- Do not use benzine, thinner or other chemical product on the cabinet, as that may cause deformation and paint peeling. Before using a chemical cloth, make sure to read all accompanying instructions. Make sure that no plastic or rubber material comes in contact with the cabinet for a long period of time, as that may cause damage or paint peeling.

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SANYO Electric Co., Ltd.

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TROUBLESHOOTING

Before sending the camera out for repair, check the items below. If the problem persists after checking these items, contact your place of purchase or a Sanyo Authorized Service Center.

■ If no image appears

- Is the coaxial cable attached securely?
- Are the power and voltage normal?
- Has the iris of the lens inside the camera been adjusted correctly (with the iris dial)?
- Is there adequate illumination?

■ If the image is unclear

- Is the lens in focus?
- Is the lens dirty?
Dirt or fingerprints on the lens can adversely affect the image. Gently wipe any dirt or fingerprints off the lens with a soft cloth or lens cleaning paper and cleaning fluid (commercially available).
- Is the monitor adjusted correctly?

SERVICE

The camera is a precision instrument. Handle it carefully and always follow the safety precautions. If the camera requires service, never try to repair it yourself or open the casing. For servicing, maintenance, or repairs, contact your place of purchase or a Sanyo Authorized Service Center.

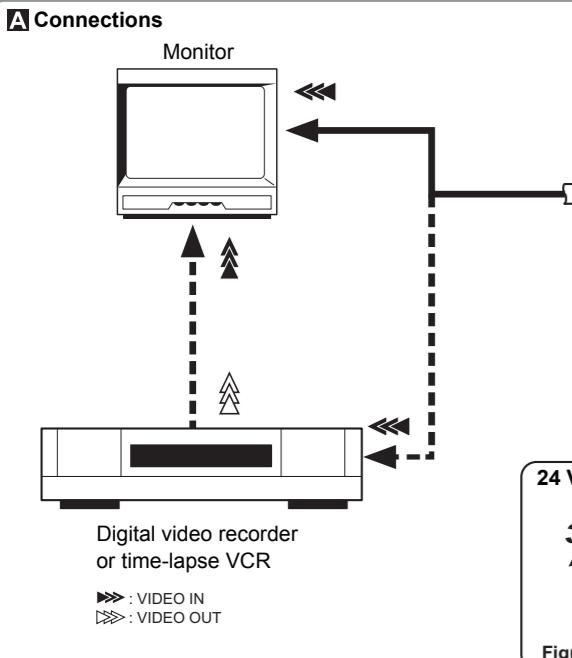
SPECIFICATIONS

| | |
|---------------------------------|--|
| Scanning system | : PAL standard (625 scanning lines, 25 frames/second) |
| Interlace | : PLL 2:1 interlace |
| Image device | 1/4-inch solid-state CCD |
| Number of pixels | : 537 (H) × 597 (V) |
| Number of pixels in image area | : 500 (H) × 582 (V) |
| Sync system | : Internal sync/line lock (manually switched) |
| Resolution | : Horizontal: 350 TV lines Vertical: 400 TV lines |
| Camera output terminal | : 1.0 V (p-p)/75 Ω, composite |
| Image S/N ratio | : 48 dB min. |
| Vari-focal lens | : F=1.4 - 1.8, f=2.8 - 5.8mm Horizontal: 35° - 65°; Vertical: 27° - 51° Angle: 43° - 77° |
| Minimum required illumination | : 1.2 lx approx. (with F1.4 lens) |
| Backlight compensation function | : Set to "MULTI" or "OFF" Set to "Center" or "OFF" |
| White balance | : Set to "Auto" or "Manual" |
| Attachment screw hole diameter | : 1/4"-20UNC (top or bottom surface) |
| Operating environment | : Ambient temperature: -10 to +50°C (14 to 122°F) Humidity: 90% RH max. |
| Power | : 24 V AC, 50 Hz/12 to 15 V DC |
| Power consumption | : 2.5 W approx. |
| Weight | : 283 g approx. |

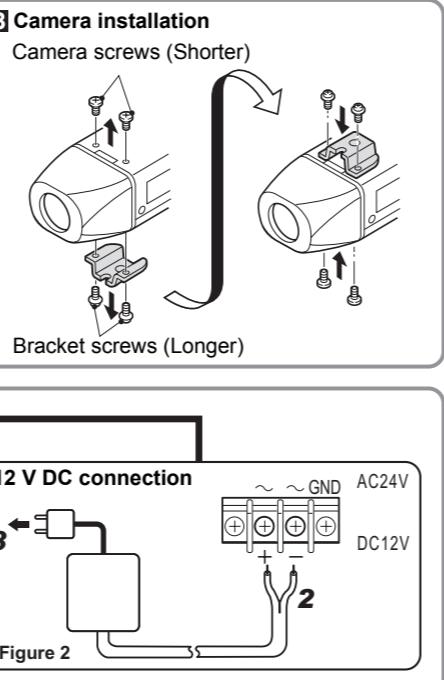
Appearance and specifications are subject to change without prior notice.

CONNECTIONS, INSTALLATION

A



B



A Connections

● What you will need

- Peripheral equipment (such as monitor, digital video recorder or time-lapse VCR)
- Cables for connecting peripheral equipment and camera (coaxial cables, connecting plugs)
- Power adapter (24 V AC or 12 V DC)

● Coaxial cables supported

You can use any of the following coaxial cables:

- RG-59U (3C-2V) Length: About 250 m max.
- RG-6U (5C-2V) Length: About 500 m max.
- RG-11U (7C-2V) Length: About 600 m max.

! CAUTION

- When using an RG-59U (3C-2V) cable, do not use it on piping or air wiring.
- Select the cable to use according to the distance between the devices to connect.
- If you use a cable other than the types above, the image or sync signal will be attenuated and will not be transmitted correctly.

● Making connections

- Connect the camera and peripheral equipment with cables.
- Connect the power cable.

<When using a 24 V AC adapter>

Connect 3 wire grounded cable# (use 18AWG+) to the ground (GND) terminal as shown in Figure 1.

<When using a 12 V DC adapter>

Connect the cable as shown in Figure 2.

! CAUTION

- When connecting the power cable to the camera, check that the polarity is correct.
- To prevent fire hazard any UL listed wire rated VW-1, should be used for the 24 V AC cable input terminal.

3 Insert the power adapter plug into the wall outlet.

The power indicator (POWER) lights.

B Camera installation

● Camera attachment bracket

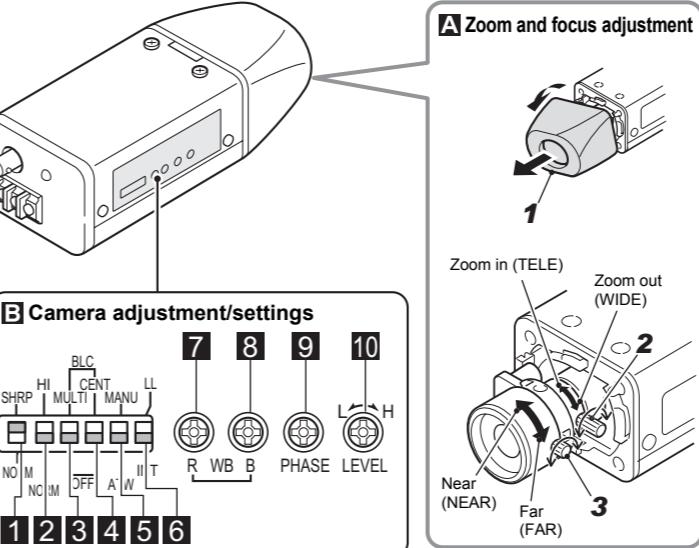
As shown in Figure B above, you can remove the camera attachment bracket and reattach it to the camera bottom if you want to attach the camera to the top of an object. If you remove the camera attachment bracket, be sure to use the removed screws when reattaching it (other screws may not fit).

! CAUTION

When using the camera attachment stand (sold separately), select a location that will be able to withstand the weight of the camera and stand for many years, and fix them securely in place.

ADJUSTMENT, SETTINGS

A



- The settings shown for switches 1 to 6 are the settings at time of factory shipment.
- Use a Phillips-head screwdriver to adjust dials 7 to 10.

A Zoom and focus adjustment

1 Remove the lens cover.

2 Loosen the zoom ring knob, and turn the zoom ring to zoom in or out (increase or decrease the size of the object in the frame).

3 Loosen the focus ring knob, and turn the focus ring to focus the object.

● When you have finished adjusting the zoom and focus, tighten the zoom and focus ring knobs securely and attach the lens cover.

! CAUTION

Take care not to touch or scratch the lens surface (front lens) when making adjustments.

B Camera adjustment/settings

The camera comes pre-adjusted and ready to install at time of factory shipment, but you may want to make adjustments or settings to adapt to the operating conditions or installation environment, if necessary.

If you have trouble adjusting the camera, contact your place of purchase or a Sanyo Authorized Service Center.

● Aperture (outline compensation) 1

If object outlines appear too strongly, set to "NORM".

| | |
|------|-----------------------------|
| SHRP | Emphasizes object outlines. |
| NORM | Normal setting |



● Gain control (AGC) 2

For adjusting the sensitivity of the camera. Use this setting for shooting in dark environments.

| | |
|------|--|
| HI | Increased sensitivity allows shots to be taken in dark environments. |
| NORM | Normal setting |



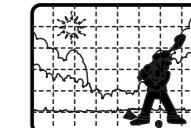
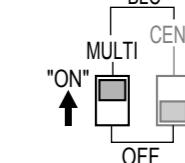
! CAUTION

The HI setting causes noise generation and a grainy image.

● Backlight compensation 3 4

You can set the metering area (), to have the lens iris adjust automatically to make the image easy to see when the object is backlit.

<When there is backlight in the entire screen: Multi-spot metering>
The screen is divided into 48 areas, and each area is metered and backlight-compensated.

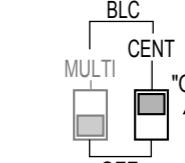


! CAUTION

If the background of the object is extremely dark, the center of the object may be too bright. In this case, set center-weighted metering mode (as shown below).

<When there is backlight only in the background: Center-weighted metering>

Only the center of the image is metered and backlight-compensated.

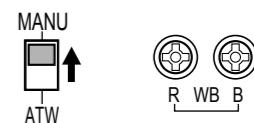


! CAUTION

Do not set switches 3 and 4 both to "ON". Compensation will not be performed correctly with this setting.

● White balance (color compensation) 5 7 8

| | |
|------|--|
| MANU | Lets you fine-tune the white balance manually. |
| WB | <ul style="list-style-type: none"> R (Red) dial 7: Turn clockwise to augment screen red. B (Blue) dial 8: Turn clockwise to augment screen blue. |
| ATW | |

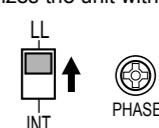


● Sync setting 6 9

Vertical sync disturbance may occur when a selector is used to switch between multiple cameras connected to one monitor. To prevent vertical sync disturbance, set to "LL."

| | |
|---------------------|--|
| LL (external sync) | Adjust PHASE dial 9 to eliminate sync disturbance. |
| INT (internal sync) | Internal Sync |

● LL (Line-Lock): Synchronizes the unit with power frequency.



! CAUTION

If the image disturbance doesn't disappear after adjusting the PHASE dial () on the second and subsequent cameras, adjust the PHASE dial () on the first camera. If the problem persists, check that all the devices have been connected with the correct power cable polarity.

● Iris dial (lens iris) 10

If the entire image is too dark or too bright, adjust the LEVEL dial ().

| | |
|----------|--|
| L (Low) | Closes the lens iris, making the entire image darker. |
| H (High) | Opens the lens iris, making the entire image brighter. |

